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## Amendments to the Claims

Claim 1. (Previously Presented) A skin care, hair care, or hair coloring composition comprising:

- (a) an effective amount of a water-soluble silk protein; and optionally
- (b) at least one cosmetic adjuvant selected from the group consisting of fillers, surfactants, thixotropic agents, antioxidants, preserving agents, dyes, pigments, fragrances, thickeners, vitamins, hormones, moisturizers, UV absorbing sunscreens, wetting agents, cationic polymers, anionic polymers, nonionic polymers, amphoteric polymers, and hair coloring active substances,

wherein the water-soluble silk protein is expressed in microbial expression systems, is purified by precipitation at a temperature below about 20 °C and redissolves in water.

Claim 2. (Original) The composition of Claim 1 wherein the effective amount of the water-soluble silk protein is from about 0.001 to about 90% by weight of the total weight of the composition.

Claims 3-4 (Canceled)

Claim 5. (Original) The composition of Claim 1 wherein the water-soluble silk protein is selected from the group consisting of the dragline spider silk proteins Spidroin 1 and Spidroin 2, spider silk proteins originating from the minor ampullate gland of Nephila clavipes, and spider silk proteins originating from the flagelliform gland of Nephila clavipes, and variants thereof.

- Claim 6. (Original) The composition of Claim 1 wherein the water-soluble silk protein is a spider dragline silk protein.
- Claim 7. (Previously Presented) The composition of Claim 6 wherein the spider silk dragline protein is defined by the formula:

[AGQGGYGGLGXQGAGRGGLGGQGAGANGG]z SEQ ID NO:5 wherein X=S, G or N; n=0-7 and z=1-75, and wherein the value of z determines the number of repeats in the variant protein and wherein the formula encompasses variations selected from the group consisting of:

- (a) when n=0, the sequence encompassing AGRGGLGGQGAGAnGG is deleted;
- (b) deletions other than the poly-alanine sequence, limited by the value of n will encompass integral multiples of three consecutive residues;

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- (c) the deletion of GYG in any repeat is accompanied by deletion of GRG in the same repeat; and
- (d) where a first repeat where n=0 is deleted, the first repeat is preceded by a second repeat where n=6; and wherein the full-length protein is encoded by a gene or genes and wherein said gene or genes are not endogenous to the Nephila clavipes genome.

Claim 8. (Previously Presented) The composition of Claim 6 wherein the spider silk dragline protein is defined by the formula:

[GPGGYGPGQQGPGGYGPGQQGPGGYGPGQQGPSGPGSAn]z SEQ ID NO:9 wherein n=6-10 and z=1-75 and wherein, excluding the poly-alanine sequence, individual repeats differ from the consensus repeat sequence by deletions of integral multiples of five consecutive residues consisting of one or both of the pentapeptide sequences GPGGY or GPGQQ and wherein the full-length protein is encoded by a gene or genes and wherein the gene or genes are not endogenous to the Nephila clavipes genome.

Claim 9. (Original) The composition of Claim 7 wherein the spider dragline protein has a repeating unit having the amino acid sequence as set forth in SEQ ID NO:1, SEQ ID NO:2, or SEQ ID NO:3.

Claim 10. (Original) The composition of Claim 6 wherein the spider dragline protein has a repeating unit having the amino acid sequence as set forth in SEQ ID NO:4.

- Claim 11. (Original) The composition of Claim 1 wherein the water-soluble silk protein is in a derivatized form.
- Claim 12. (Original) The composition of Claim 11 wherein the water-soluble silk protein has been derivatized with a functional group selected from the group consisting of amines, oxanes, cyanates, carboxylic acid esters, silicone copolyols, siloxane esters, quaternized amine aliphatics, urethanes, polyacrylamides, dicarboxylic acid esters, and halogenated esters.
- Claim 13. (Original) The composition of Claim 1 wherein the composition further comprises an effective amount of a natural or recombinant protein, or a digest thereof.
- Claim 14. (Original) The composition of Claim 13 wherein the natural or recombinant protein is selected from the group consisting of wheat proteins, oat proteins, rice proteins, almond proteins, soy proteins, collagen, keratins, gelatin, elastin, fibronectin, and soluble reticulin.

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Claim 15. (Original) The composition of Claim 1, which is an anhydrous composition and contains 10 to 90% by weight, relative to the total weight of the composition, of a fatty phase, wherein the fatty phase contains at least one liquid, solid, or semi-solid fatty substance.

Claim 16. (Original) The composition of Claim 15, wherein the fatty substance is selected from the group consisting of isododecane, hydrogenated polyisobutene, squalane, isononyl isononanoate, cyclotetra- and - pentadimethicones, phenyltrimethicone, ethylene homopolymers, ethoxylated fats and oils, fluoroalkanes, microcrystalline waxes, ozocerite, beeswax, seracite, shea butter, candelilla wax, arachidyl propionate, fluoropolymers represented by the monomer:

wherein x = 1 or 2, and y = 1, 2 or 3, and copolymers of ethylene and of at least one monomer represented by the formula:

$$CH_2 = CH - R_3$$

wherein R<sub>3</sub> is an alkyl radical containing from 1 to 30 carbon atoms or an aryl or aralkyl radical.

- Claim 17. (Original)The composition of Claim 1, which is in the form of an aqueous solution containing mono or polyhydric alcohols.
- Claim 18. (Original)The composition of Claim 1, which is in the form of a crème emulsion, a gel, a dry powder, an aerosol, a mousse, an alcohol-in-oil emulsion, an alcohol and water solution, an aqueous solution, or an emulsion solution.
- Claim 19. (Original)The composition of Claim 1 which is in the form of a powder and wherein the effective amount of the water-soluble silk protein is present along with a pigment or filler.
- Claim 20. (Original)The composition of Claim 1, which is in the form of an aqueous alkaline solution suitable for preparing compositions for coloring or bleaching hair.
- Claim 21. (Original) The composition of Claim 1, which is in the form of a stable dispersion of water-in-oil or oil-in-water type, and comprises:

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- (a) a fatty phase in a proportion of from about 0.1 to about 50% by weight relative to the total weight of the composition, wherein the fatty phase contains a water-soluble silk protein, or derivative thereof, in a proportion of from about 0.001 to about 90% by weight relative to the total weight of the composition;
- (b) an aqueous phase in a proportion of from about 50 to about 98.9% by weight relative to the total weight of the composition; and
- (c) at least one emulsifier in a proportion of from about 1 to about 10% by weight relative to the total weight of the composition.

Claim 22. (Original) A method for forming a protective film of water-soluble silk protein on skin or hair comprising:

- (a) applying to the skin or hair the composition of Claim 1; and
- (b) allowing the formation of the water-soluble silk protein protective film on the skin or hair.